



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "AA 900" Project-In Aluminum Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1694, titled Series "AA 900 Project-In Large Missile Impact Window", sheets 1 through 3 of 3, dated 11/17/2009 with the revision "A1", dated 10/06/2011, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 10-0616.03 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
1/6/12

NOA No. 11-1027.09
Expiration Date: October 20, 2015
Approval Date: January 12, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 10-0616.03)
2. Drawing No. 1694, titled Series "AA 900 Project-In Large Missile Impact Window", sheets 1 through 3 of 3, dated 11/17/2009 with the revision "A1", dated 10/06/2011, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of projected-in window, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0049-0108-09** and **HTL-0049-0106-09**, dated 08/04 and 09/08/2009, all signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 10-0616.03)

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 02/03/2010, signed and sealed by Warren W. Schaefer P. E.
(Submitted under previous NOA No. 10-0616.03)
2. **Glazing complies with ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites used for lamination of glass**" dated 7/17/2008, expiring on 12/11/2013.
2. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/2008, expiring on 04/17/2013.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1027.09
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E. MATERIAL CERTIFICATIONS (CONTINUED)

3. Test reports on: 1) ASTM D624C Tear Test passed 141 pli \geq 125 pli
2) ASTM D412C Tensile Test 30HRS passed 2350 PSI and 2130PSI;
3) ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 30%;
4) ASTM D2240 Shore A Hardness passed 83A \leq 85 (\pm 5) durometer;
5) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100 pphm NO Cracks;
6) ASTM D573 Heat Resistance 70 HR/ 100°C passed: Tensile -1% \leq 15%, Elongation -38% \leq 40%, Hardness 8 \leq 10 and 7PSI \leq 10PSI;
7) ASTM D624C Tear Test passed 158 pli \geq 125 pli;
8) ASTM D746/ C509 Low Temperature Brittleness at -40°C passed NO Cracks;

along with Verified Component List of Extra High Performance Replaceable Fenestration Setting Block by an AAMA Accredited Laboratory, P/N: 5,483,775 issued by Kawneer Company, Inc., dated 01/06/2010 by AAMA Certification Program.

(Submitted under previous NOA No. 10-0616.03)

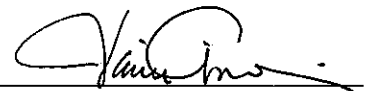
4. Test reports on: 1) ASTM C864 Option II passed;
2) ASTM D412C Tensile Test 30HRS passed 1500 PSI;
3) ASTM D395B Compression Set 22 HRS with 100°F passed 21% and 28% \leq 29%;
4) ASTM C661 Durometer, Shore A 60 \pm 5

along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: TR14649E issued by TremCo, Inc., dated 01/06/2010 by AAMA Certification Program.

(Submitted under previous NOA No. 10-0616.03)

5. Test reports on: 1) ASTM C661 Durometer, Shore A 65 \pm 5;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: E202 issued by Ultrafab, Inc., dated 01/06/2010 by AAMA Certification Program.

(Submitted under previous NOA No. 10-0616.03)



Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 11-1027.09

Expiration Date: October 20, 2015

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E. MATERIAL CERTIFICATIONS (CONTINUED)

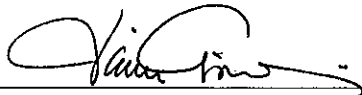
6. Test reports on: 1) ASTM C661 Durometer, Shore A 60 \pm 5;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
along with AAMA 805.2-94, Group A, Verified Component List of Bonding Back-Bedding Compound by an AAMA Accredited Laboratory, P/N: InstantGlaze I issued by Dow Corning, dated 09/08/2009 by AAMA Certification Program.
(Submitted under previous NOA No. 10-0616.03)
7. Test reports on: 1) ASTM C864 Option II passed;
2) ASTM D412C Tensile Test 30HRS passed 1500 PSI \geq 1410PSI;
3) ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 30%;
4) ASTM C661 Durometer, Shore A 70 \pm 5
along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: RM270555 issued by Trelleborg/ EPG, Inc., dated 01/06/2010 by AAMA Certification Program.
(Submitted under previous NOA No. 10-0616.03)

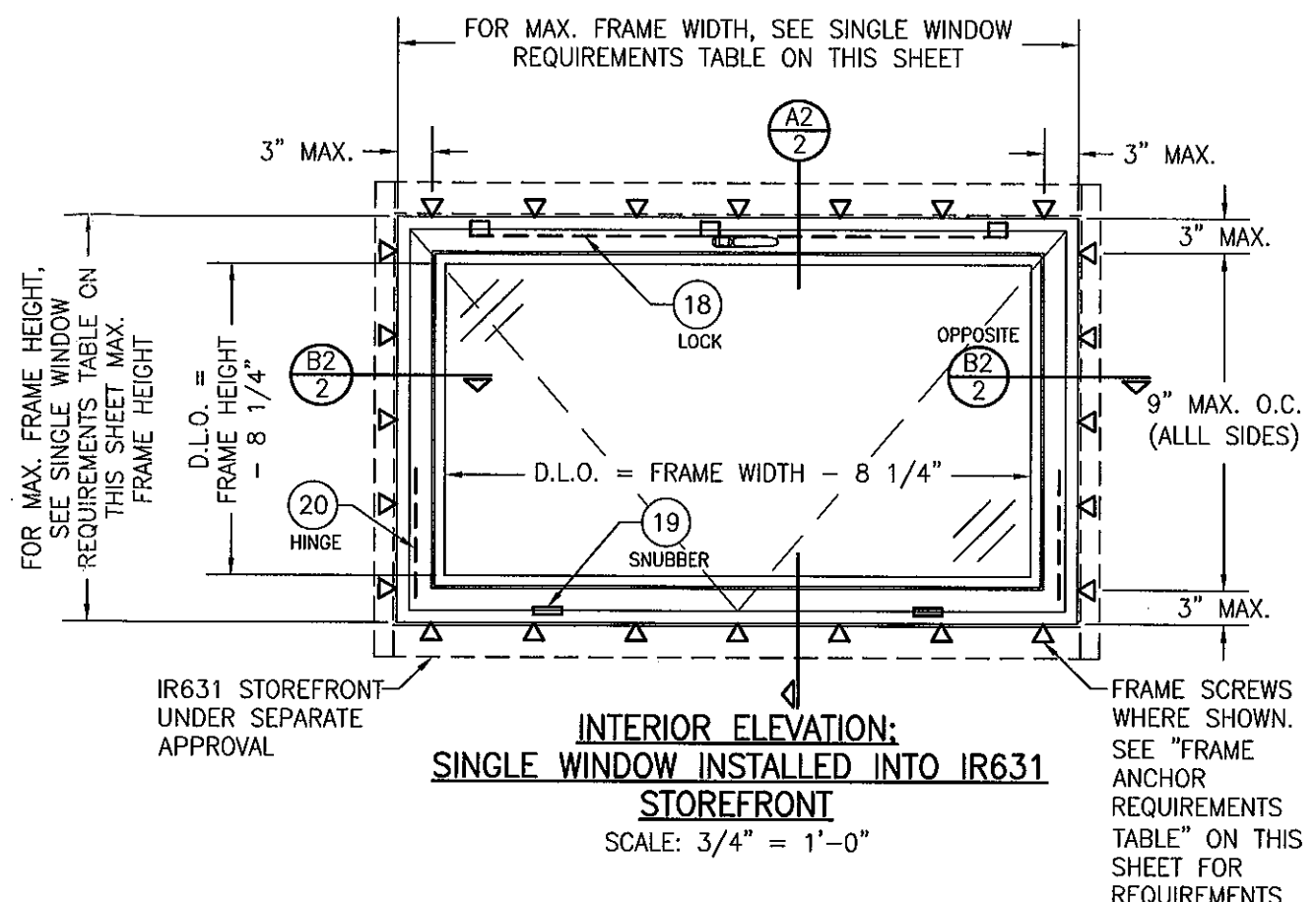
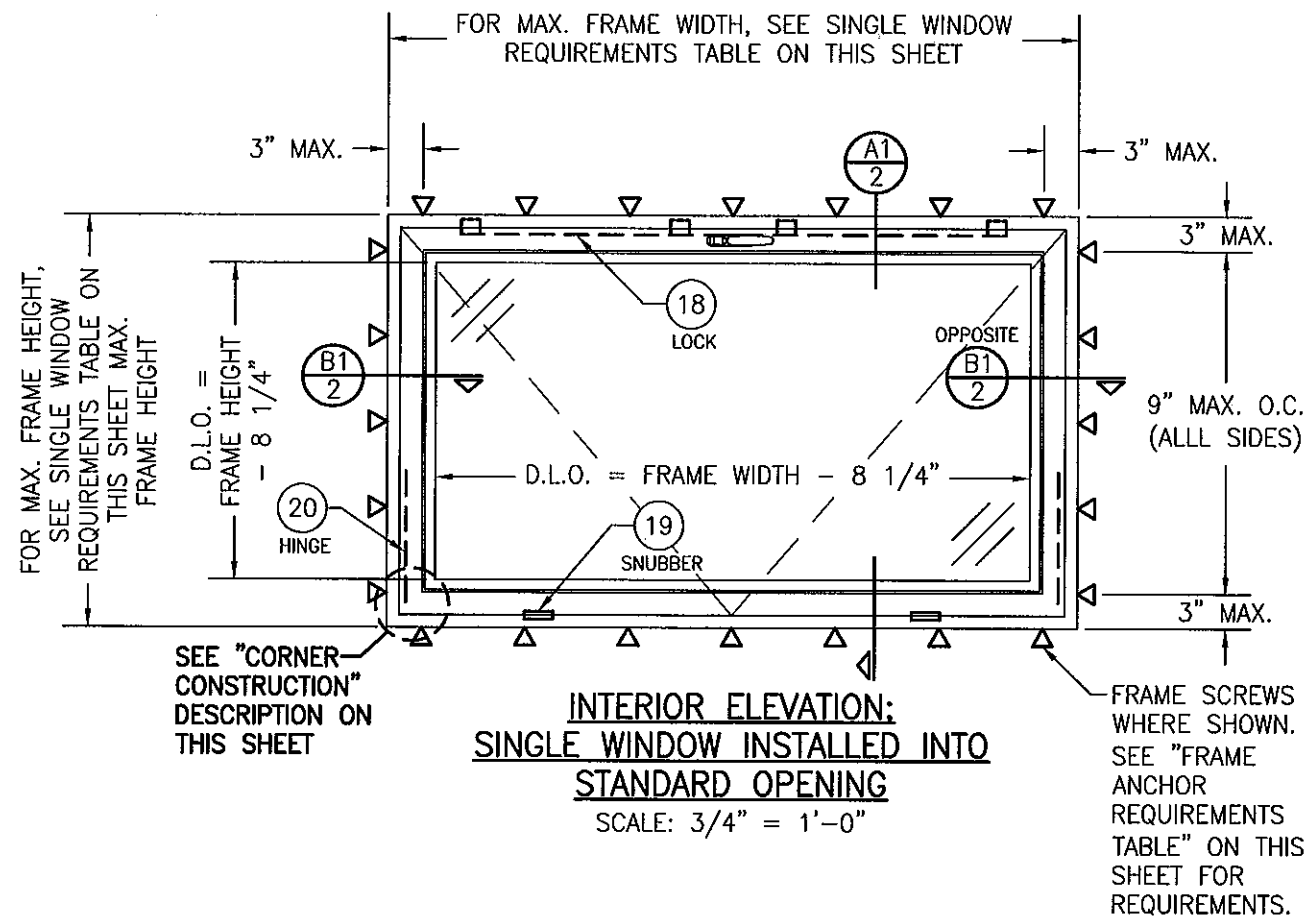
F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2007, FBC-2010 and ANSI/ AAMA/ NWWDA 101/ I.S. 2-97, dated 10/06/2011 signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independence, dated 10/06/2011, signed and sealed by Warren W. Schaefer, P. E.
3. Proposal No. **11-0976** issued by Product Control for the change of, or for the addition of the "GE Momentive RGS 7700" exterior sealant, dated 08/30/2011, signed by Manuel Perez, P. E.
4. Statement letter of conformance, no financial interest and compliance with the FBC-2007, dated 02/03/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 10-0616.03)
5. Laboratory compliance letter for Test Reports No.'s **HTL-0049-0108-09** and **HTL-0049-0106-09**, issued by Hurricane Test Laboratory, LLC, dated 09/08/2009, all signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 10-0616.03)

G. OTHERS

1. Notice of Acceptance No. **10-616.03**, issued to Kawneer Company, Inc. for their Series "AA 900 Project-In Aluminum Window - L.M.I.", approved on 10/20/2010 and expiring on 10/20/2015.


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1027.09
Expiration Date: October 20, 2015
Approval Date: January 12, 2012



GENERAL NOTES:

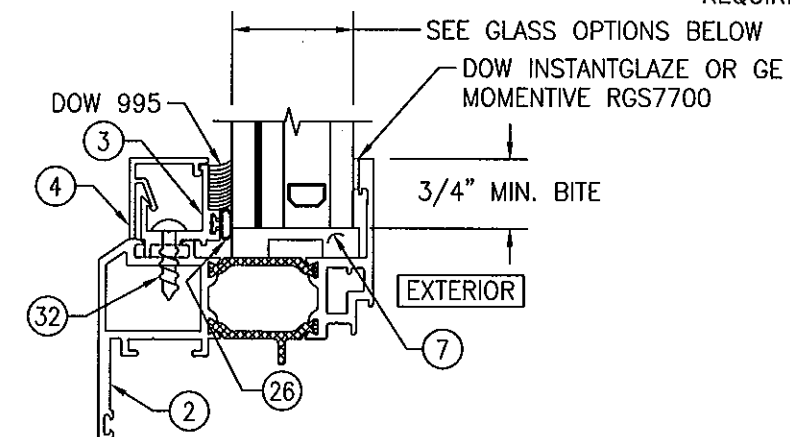
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_D = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_D = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

CORNER CONSTRUCTION:

FRAME: MITERED, JOINED TOGETHER WITH TWO(2) CORNER KEYS (ITEM #10). CORNERS ARE SEALED WITH DOW 995 SEALANT.
SASH: MITERED, JOINED TOGETHER WITH TWO(2) CORNER KEYS (ITEMS #8 & #9). CORNERS ARE SEALED WITH DOW 995 SEALANT.

WINDOW REQUIREMENTS TABLE

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE GLASS OPTION	QUANTITY LOCK POINTS REQ'D	QUANTITY OF SNUBBER'S REQ'D
+100/-135 PSF ALLOWABLE PRESSURE				
44 1/2	28	1	4	1
33 1/2	28	1	3	1
22 1/4	28	1	2	1
+/-75 PSF ALLOWABLE PRESSURE				
59 1/2	35 1/2	2	3	2
39 1/2	35 1/2	2	2	2
29 3/4	35 1/2	1 OR 2	2	1
44 1/2	28	1 OR 2	3	1
SEE GLAZING DETAIL ON THIS SHEET FOR GLASS OPTIONS				



TYPICAL GLAZING DETAIL

GLASS OPTION 1: 1 5/16" THICK I.G. GLASS(1/4" H.S./0.070 SOLUTIA VANCEVA/1/4 H.S. INTERIOR; 1/2" SPACER; 1/4" TEMP. EXTERIOR)
GLASS OPTION 2: 1 5/16" THICK I.G. GLASS(1/4" H.S./0.09 SOLUTIA SAFLEX IIIIG PVB/1/4 H.S. INTERIOR; 1/2" SPACER; 1/4" TEMP. EXTERIOR)

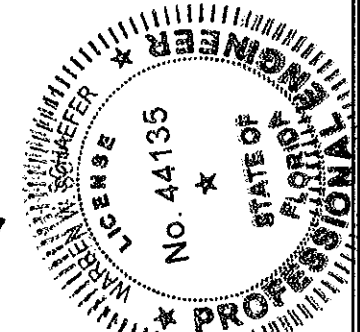
FRAME ANCHOR REQUIREMENTS TABLE

FRAME SCREWS

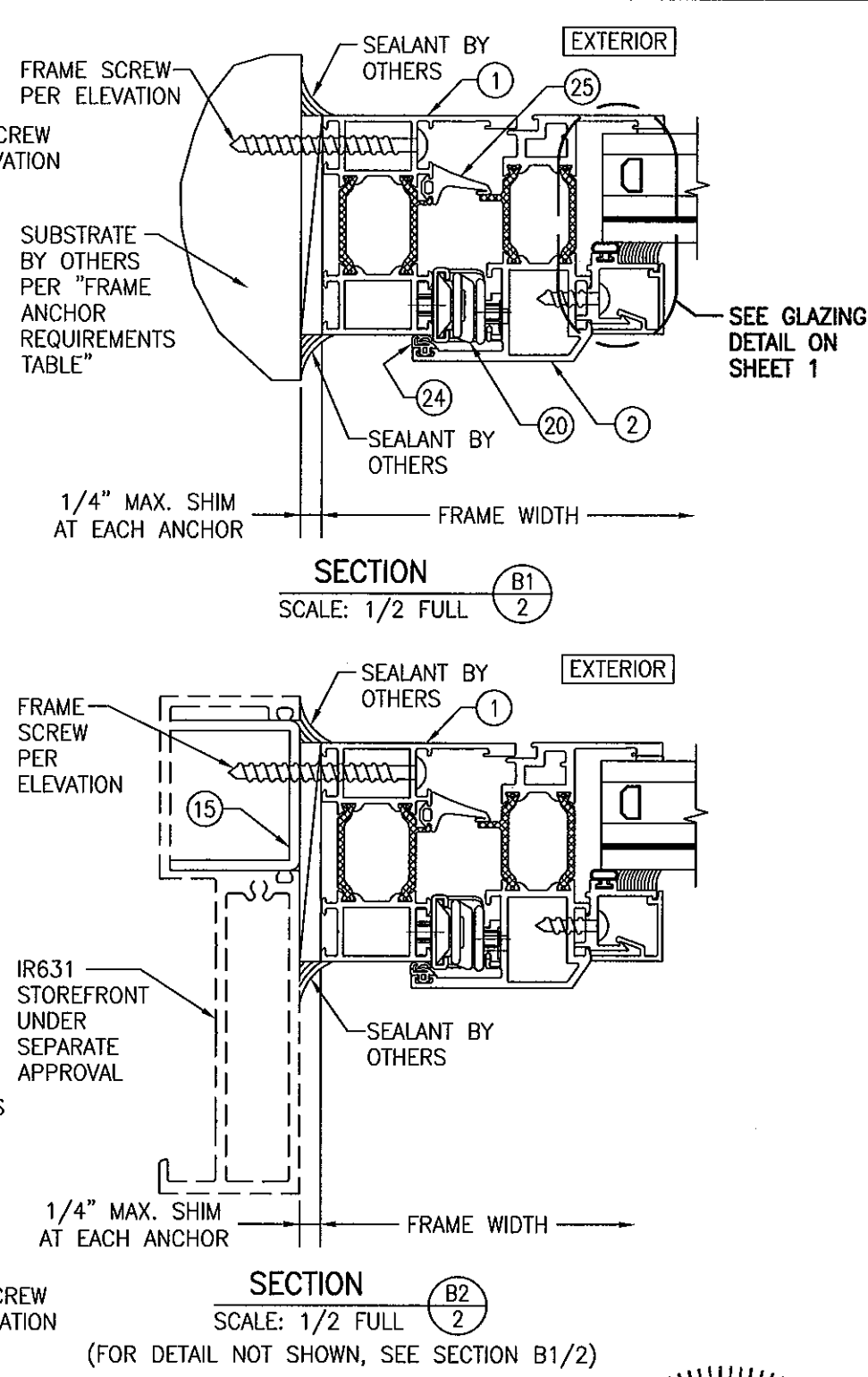
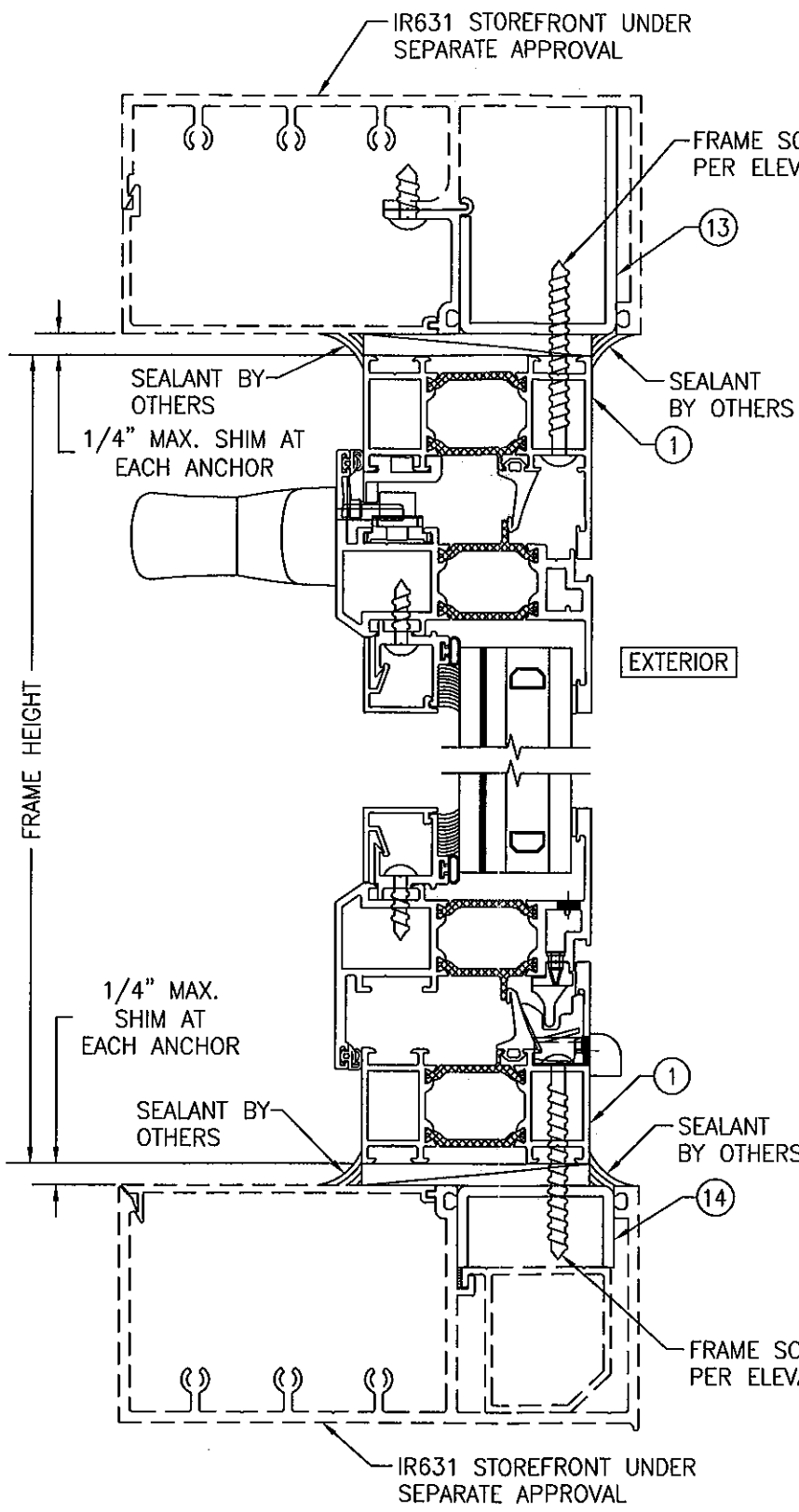
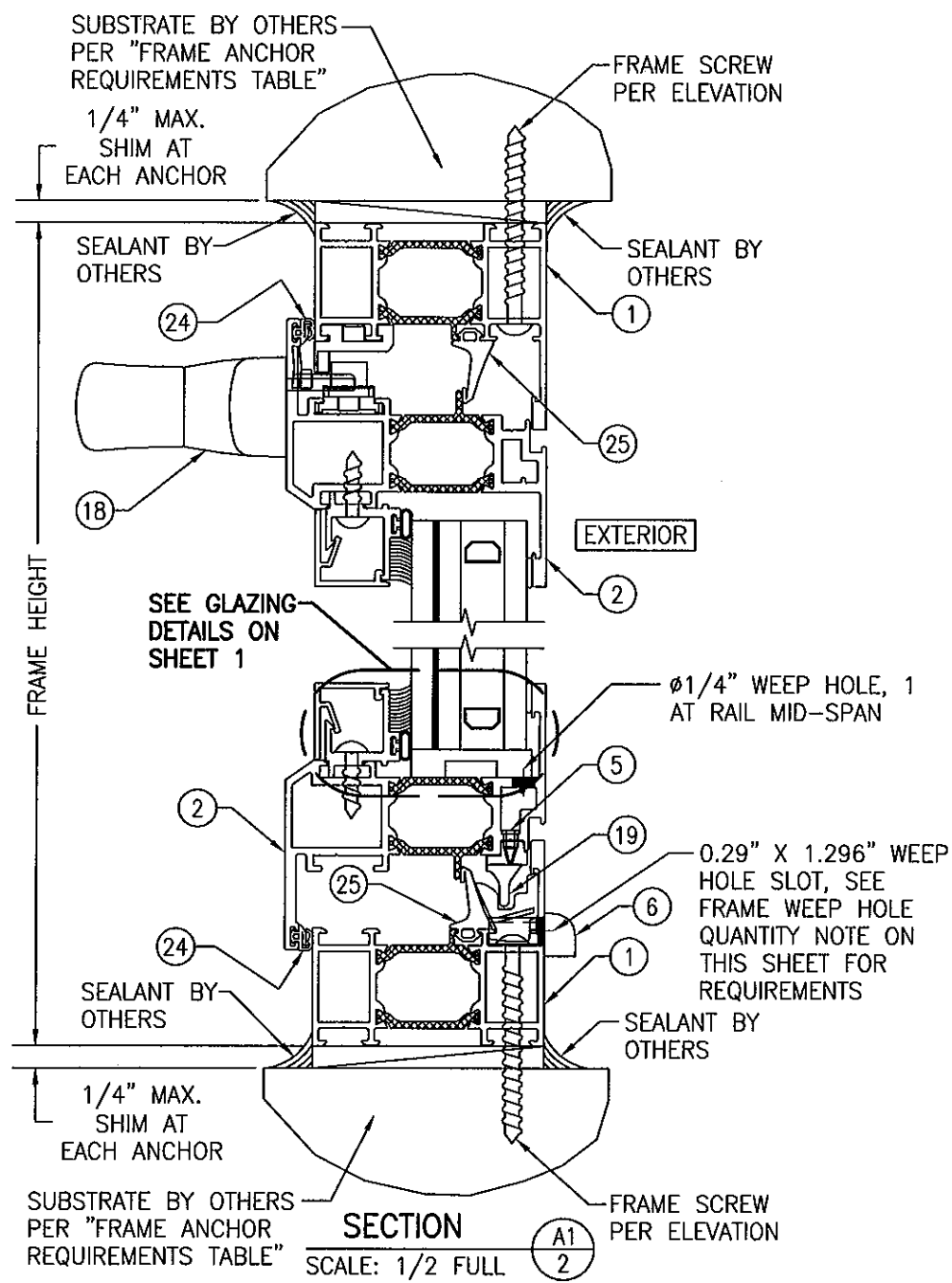
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
IR631 STOREFRONT	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.125" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027-09
Expiration Date 10/20/2015
By [Signature]
Miami Dade Product Control

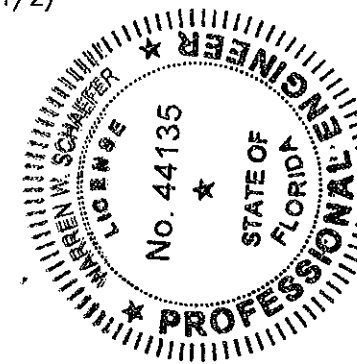


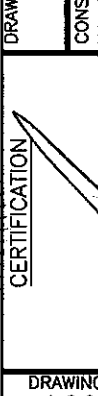
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 11/17/09	
DATE	BY	REVISION DESCRIPTION	NO.
10/06/11	W.R.M.	A1 ADD NEW GLAZING SEALANT	1
DRAWING TITLE: AA900 PROJECT-IN LARGE MISSILE IMPACT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		OCT 06 2011 WARREN W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1694		REV. A	
SHEET NO. 1		OF 3	



FRAME WEEP HOLE QUANTITY NOTE:
 1 REQ'D WHEN WINDOW FRAME WIDTH IS 18" OR LESS
 2 REQ'D WHEN WINDOW FRAME WIDTH IS BETWEEN 18" & 32"
 3 REQ'D WHEN WINDOW FRAME WIDTH IS OVER 36"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1027.09
 Expiration Date 10/22/2015
 By [Signature]
 Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/17/09	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE AA900 PROJECT-IN LARGE MISSILE IMPACT WINDOW			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION  OCT 06 2011 WARREN, W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1694		REV. A	
SHEET NO. 2 OF 3			

